Approved for use through 10/31/2002. OMB 0651-0032 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

## UTILITY **PATENT APPLICATION TRANSMITTAL**

Attorney Docket No.		No.	2269-3091.5US (96-0890.04/US)					
First Inventor Sal		Satr	man Akram					
Title	METHODS OF FABRICATING SEMICONDUCTOR SUBSTRATE- BASED BGA INTERCONNECTION							

(Only for new nonprovisional application	(b)) I	Express Mail Labe	el No. E	EV348044998US						
APPLICATION ELEMENTS  ADDRESS TO: Meil Stop Patent Application Commissioner for Patents										
See MPEP chapter 600 concerning utility	ents.	ADDRES	SS TO:	P.O. Box 1450 Alexandria, VA 2						
1. Fee Transmittal Form (e.			7. CD-ROM or CD-R in duplicate, large table or							
_	(Submit an original and a duplicate for fee processing)  Applicant claims small entity status.					Computer Program (Appendix)  8. Nucleotide and/or Amino Acid Sequence Submission				
See 37 CFR 1.27.	(it) ototoo.	7			necessary)	Addition Dabinission				
3. Specification  (preferred arrangement set for	[Total Pages 1	5]		a. Computer Readable Form (CRF)						
- Descriptive title of the Inven	tion		<ul> <li>b. Specification Sequence Listing on:</li> <li>i.  CD-ROM or CD-R (2 copies); or</li> </ul>							
<ul> <li>Cross Reference to Related</li> <li>Statement Regarding Fed s</li> </ul>			ii. paper							
<ul> <li>Reference to sequence listing or a computer program listing</li> </ul>			c. Statements verifying identity of above copies  ACCOMPANYING APPLICATIONS PARTS							
<ul> <li>Background of the Inventior</li> </ul>	i .									
<ul> <li>Brief Summary of the Invent</li> <li>Brief Description of the Draw</li> </ul>			1 =	-	nt Papers (cove 3.73(b) Statem	r sheet & document(s)) ent				
<ul> <li>Detailed Description</li> <li>Claim(s)</li> </ul>					e is an assigne					
- Abstract of the Disclosure			11. 🗌 Er	nglish Tra	anslation Docum	nent (if applicable)				
4. Drawing(s) (35 U.S.C.113 5. Oath or Declaration	) [Total Sheets 1	1 1			n Disclosure (IDS)/PTO-144	Copies of IDS Citations				
a. Newly executed (original		— ,	13. 🔲 Pr	reliminary	y Amendment					
b. 🛛 Copy from a prior applic		<b>i</b> ))			ceipt Postcard (	,				
(for a continuation/divis	ional with Box 18 com	pleted)			e specifically iter ony of Priority D	•				
<ul> <li>i. DELETION OF INVENTION OF INV</li></ul>			(if foreign priority is claimed)							
named in the prior applica			16. Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35							
1.63(d)(2) and 1.33(b).	- 27 CED 4 76		_ or	its equiv		is allacit former 10/05/05				
6. Application Data Sheet. Se	e 37 CFR 1.76		17. ⊠ Ot	ther: <u>Co</u> r	py of Associate	Power of Attorney (2 pgs.)				
18. If a CONTINUING APPLICATION,		and supp	ly the requisite in	nformatio	n below and in a	preliminary amendment,				
or in an Application Data Sheet under  ☐ Continuation ☐ Division	_	tion-in-par	t (CIP)	of pri	or application No:	09 / 649.225				
Prior application information:	Examiner T. Pham		- ( ,	•	roup / Art Unit: 28					
For CONTINUATION or DIVISIONAL A under Box 5b, is considered a part of										
The incorporation can only be relied u										
	19. COR	RESPO	NDENCE ADDR	RESS						
☑ Customer Number or Bar Code La	bel *	242	247*		or 🗆 Cor	rrespondence address below				
		242								
	PATI	ENT TRADI	EMARK OFFICE		<u> </u>					
Name			<u> </u>							
Address										
City	State				Zip Code	·				
Country	Telephone	9			Fax					
Name (Print/Type) Tawni I	Wilhelm		Registration No. (Attorney/Agent) 47,456							
Signature	Promis LI	1:00-0			Date	June 23, 2003				

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner of Patents. P.O. Box 1450. Alexandria. VA 22313-1450.

FEE	TRA	NS	MIT	TAL
1	for F	Y 2	003	

Effective 01/01/2003. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1:27

TOTAL AMOUNT OF PAYMENT

(2)	750

Complete if Known					
Application Number	To be assigned				
Filing Date	June 23, 2003				
First Named Inventor	Salman Akram				
Examiner Name	To be assigned				
Group / Art Unit	To be assigned				
Attorney Docket No.	2269-3091.5US (96-0890.04/US)				

METHOD OF PAYMENT (check all that apply)				FEE CALCULATION (continued)						
☑ Check ☐ Credit card ☐ Money ☐ Other ☐ None				3. ADDITIONAL FEES						
Order  Deposit Account:				<u>Large</u>	Entity	Small E	Entity			
I — ·				Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid	
Account	20-1469			1051	130	2051	65	Surcharge - late filing fee or oath		
Number				1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet.		
Deposit				1053	130	1053	130	Non-English specification		
Account	TraskBritt			1812	2,520	1812	2,520	For filing a request for reexamination		
Name The Commission	ner is authorize	ed to: (check all that apply)		1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action		
The Commissioner is authorized to: (check all that apply)  ☐ Charge fee(s) indicated below ☑ Credit any overpayments ☑ Charge any additional fee(s) during the pendency of this application				1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action		
		, except for the filing fee		1251	110	2251	55	Extension for reply within first month	i i	
to the above-iden		count. ALCULATION		1252	410	2252	205	Extension for reply within second month		
1. BASIC FI	ING FEE			1253	930	2253	465	Extension for reply within third month		
Large Entity	Small Entity			1254	1,450	2254	725	Extension for reply within fourth month		
	Fee Fee Code (\$)	Fee Description Fee Paid	•	1255	1,970	2255	985	Extension for reply within fifth month		
,	2001 375	Utility filing fee 750	7	1401	320	2401	160	Notice of Appeal		
	2002 165	Design filing fee	-	1402	320	2402	160	Filing a brief in support of an appeal		
	2003 260	Plant filing fee	┪	1403	280	2403	140	Request for oral hearing		
1004 750	2004 375	Reissue filing fee	4	1451	1,510	1451	1,510	Petition to institute a public use proceeding		
1005 160	2005 80	Provisional filling fee		1452	110	2452	55	Petition to revive – unavoidable		
	SUBTOTA	L (1) (\$) 750	٦	1453	1,300	2453	650	Petition to revive - unintentional		
30510TAE(1) (3) 730				1501	1,300	2501	650	Utility issue fee (or reissue)		
2. EXTRA CLAII	<b>II</b> FEES			1502	470	2502	235	Design issue fee		
		Extra Fee from Fee Claims below Paid		1503	630	2503	315	Plant issue fee		
Total Claims 8	-20 ** =	0 X 18 = 0	7	1460	130	1460	130	Petitions to the Commissioner		
Independent	<del>-</del> -		₹ .	1807	50	1807	50	Processing fee under 37 CFR 1.17 (q)		
Claims 1	-3 ** =	0 X 84 = 0	_	1806	180	1806	180	Submission of Information Disclosure Stmt		
Multiple Dependent  Large Entity   Small Entity				8021	40	8021	40	Recording each patent assignment per property (times number of properties)		
Fee Fee Code (\$)	Fee Fe Code (\$)			1809	750	2809	375	Filing a submission after final rejection (37 CFR § 1.129(a))		
1202 18	2202 9	Claims in excess of 20		1810	750	2810	375	For each additional invention to be		
1201 84	2201 42	Independent claims in excess of 3						examined (37 CFR § 1.129(b))		
1203 280	2203 140	0 Multiple dependent claim, if not pa	id	1801	750	2801	375	Request for Continued Examination (RCE)		
1204 84	2204 42	** Reissue independent claims ov original patent	er	1802	900	1802	900	Request for expedited examination	<del></del>	
1205 18	2205 9	** Reissue claims in excess of 20 over original patent	and				•	of a design application		
	s	SUBTOTAL (2) (\$) 0	7		e (speci		-			
		<u> </u>		*Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 0				ĺ		
**or number pre	viously paid, if g	reater; For Reissues, see above								

1	SUBMITTED BY			Complete (if applicable)				
Name (Print/Type) Tawni L. Wilhelm		Tawni L. Wilhelm	Registration No. Attorney/Agent) 47,456		Telephone	801-532-1922		
ĺ	Signature	Townia	9 Welhelm		Date	June 23, 2003		

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alarande VA 22242 1450.